

AMENDMENT TO THE SPECIFICATION

Please amend the specification on page 5, lines 1-25, to read as follows:

Figs. 3A-F illustrate ~~Fig. 3 illustrates~~ Apolipoprotein E4 allele copy number, tangles and senile plaque densities in the hippocampus in Alzheimer's disease;

Figs. 4A and 4B illustrate ~~Fig. 4 illustrates~~ Apolipoprotein E4 allele copy number and choline acetyltransferase activity in Alzheimer's disease;

Figs. 5A and 5B illustrate ~~Fig. 5 illustrates~~ the loss of neurons which synthesize acetylcholine in the nucleus basalis of Meynert and in the diagonal band of Broca; and

Figs. 6A-J illustrate ~~Fig. 6 illustrates~~ the effect of apolipoprotein E4 (apo E4) allele copy number on a) choline acetyltransferase activity, b) nicotinic receptor density, c) total muscarinic receptor density, d) muscarinic M1 (post-synaptic) and e) muscarinic M2 receptor density in post-mortem control and Alzheimer's disease brains in the hippocampal formation and temporal cortex;

Fig. 7 illustrates the individual neuropathological and morphological characteristics associated to the cholinergic system in the brain of the various Alzheimer's disease and control cases investigated; and

Figs. 8A and 8B illustrate ~~Fig. 8 illustrates~~ the Alzheimer's disease assessment scale (ADAS) delta values (end values minus screen values) in tacrine-treated AD patients with different apoE genotype.